

WHAT IS CLAIMED IS:

- Sub A1
1. A method of calibrating an imaging system comprising:
collecting calibration data;
determining the positioning and orthogonality errors from the calibration data; and
creating a solution model based on positioning and orthogonality data.
 2. The method of Claim 1, further comprising modifying the position an image area based on the solution model.
 3. The method of Claim 1, further comprising modifying the positioning of a mechanical system to compensate for errors based on the solution model.
 4. The method of Claim 1, further comprising determining calibration data based on stepping data.
 5. The method of Claim 1, further comprising determining calibration data based on slide data using a reference slide.
 6. The method of Claim 1, further comprising determining calibration data based on sub-spot data.
 7. The method of Claim 1, further comprising determining calibration data based on absolute data.

8. A method of obtaining an image of a plurality of specimens comprising:

determining calibration data;

creating adjustment parameters based on the calibration data;

applying the adjustment parameters to position a first portion of the plurality of specimens within a scan area;

obtaining an image of the first portion of the plurality of specimens;

applying the adjustment parameters to position a second portion of the plurality of specimens within a scan area;

obtaining an image of the second portion of the plurality of specimens; and

combining the image of the first portion and the image of the second portion to create the image of the plurality of specimens.

9. The method of Claim 8, further comprising:

obtaining an image of a plurality of portions of the plurality of specimens, wherein a location of each of the plurality of portions is adjusted based on the adjustment parameters; and

Sub #1
Comments

ATTORNEY DOCKET NO. 11532-036001

Sub A1
Continued

stitching together each of the images of the plurality of portions of the plurality of specimens.

10. The method of Claim 8, further comprising determining calibration data based on stepping data.

11. The method of Claim 8, further comprising determining calibration data based on slide data using a reference slide.

12. The method of Claim 8, further comprising determining calibration data based on sub-spot data.

13. The method of Claim 8, further comprising determining calibration data based on absolute data.

14. A system for scanning a plurality of specimens arranged within a scan area comprising:

a staging area which moves relative to a camera;

a processor which collects calibration data from the staging area, wherein the processor creates an adjustment algorithm to modify movement of the staging area to compensate for the calibration data.

15. The system of Claim 14, wherein the calibration data is based on a bright spot within the scan area.

16. The system of Claim 14, wherein the staging area is positioned to collect a plurality of images, each of the plurality of images comprising a portion of the total desired image.

system of Claim 1
is assembled to
system of Claim 1
thout the use of
system of Claim 1
th the use of a

system of Claim 1
is assembled to
system of Claim 1
thout the use of
system of Claim 1
th the use of a

system of Claim 1
is assembled to
system of Claim 1
thout the use of
system of Claim 1
th the use of a

(The following are the names of the persons who have been appointed as members of the Board of Directors of the Corporation since the last meeting of the Board.)